











jQuery UI Part 2: Dialog Boxes

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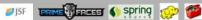
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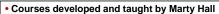




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Taught by lead author of Core Servlets & JSP, co-author of *Core JSF* (4th Ed), and this tutorial.

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Topics in This Section

- Overview and usage
- Basic dialog boxes
- Dialogs with animation
- Modal dialogs
- Modal dialogs with buttons
- Dialogs with Ajax content

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Dialog: Overview

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Idea

A popup window (really a div with absolute positioning) that contains arbitrary
 HTML. One of the single most commonly used rich elements in modern Web apps.

HTML

- Make an initially-hidden div with content inside.
- Use the title attribute of div for title of dialog.

```
<div id="some-id" title="Title" style="display: none">
...
</div>
```

Basic JavaScript

```
- Call dialog() on element
$("#some-id").dialog();
- Many options
```

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Key Dialog Options (But Many More Available)

Animation

- show, hide: let you specify name of animation effect
 - See http://api.jqueryui.com/category/effects/

Dialog type

- modal: gray out window, make controls disabled
- buttons: lets you specify buttons for dialog
- draggable, resizable: (default true for both)

Sizing and positioning

- Size
 - height, width, minHeight, minWidth, maxHeight, maxWidth
- Position
 - position, zIndex

Usage

Replace separate pages

- For almost anything that is short, you should consider using a dialog box instead of a separate HTML page

Examples

- Login
 - · Click login button, dialog with input form pops up
- Show large pictures for thumbnails
 - Click thumbnail, dialog with image pops up. Widely used in online stores for seeing larger version of item for sale.
- General info
 - Pop up shipping rates, address, sizing chart, etc.
- Hard-to-block ads
 - Use dialogs for ads instead of popup windows. Difficult for popup blocker to stop, since they are really divs in the current page.

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Basic Dialogs

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Big idea

- When button pressed, style hidden div as a dialog box and pop it up

Core HTML code

```
<div id="simple-dialog" title="..." style="display:none">
   Dialog content
</div>
```

Core JavaScript code

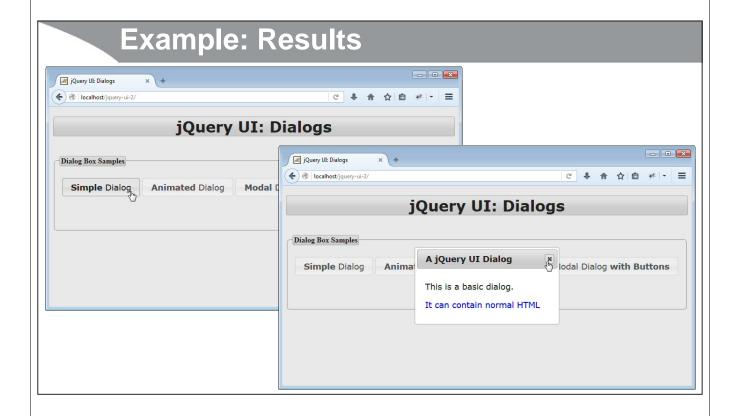
```
$("#simple-dialog").dialog();
```

Note

- The core code above would usally be part of the button handler. And, you typically style the buttons as in last section.

```
$("#simple-dialog-button")
.button()
.click(function() { $("#simple-dialog").dialog(); });
```

Example: HTML















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Overview

- Big idea
 - Pop up dialog, but use one of the standard jQuery UI animation effects.
- Core HTML code

```
<div id="..." title="..." style="display: none">...</div>
- (Same as before)
```

Core JavaScript code

```
$("#some-id").dialog({ show: { effect: "..." ... },
                       close: { effect: "..." ... } });
```

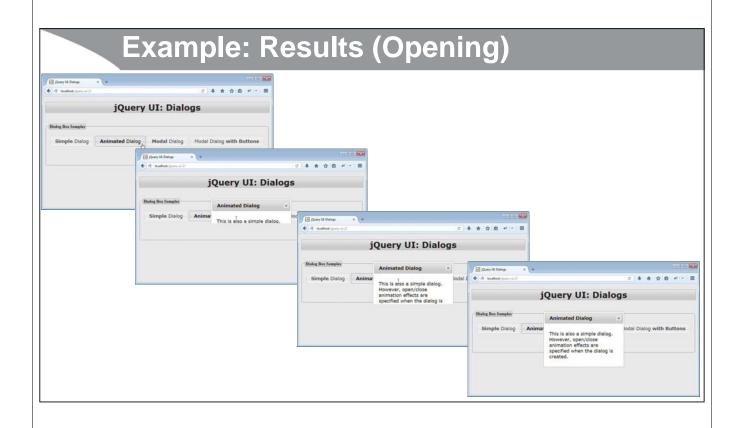
 The values for show and close contain the name of an effect and optionally effect options like duration.

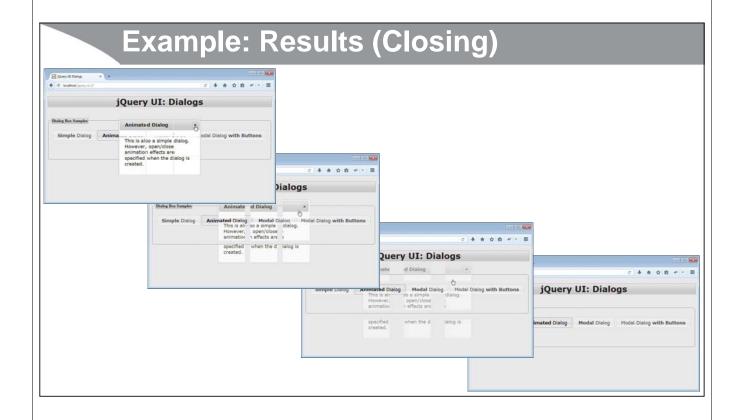
```
show: { effect: "blind" }
close: { effect: "explode", duration: 1000 }
```

- For names of all effects and details of options, see http://api.jqueryui.com/category/effects/
- Use animations lightly in most business apps

Example: HTML

Example: JavaScript















Modal Dialogs

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Overview

Big idea

- Pop up dialog when button pressed, but make dialog be modal
 - Main window grayed out
 - User cannot interact with elements in main page until dialog is closed

Core HTML code

```
<div id="..." title="..." style="display: none">...</div>
- (Same as before)
```

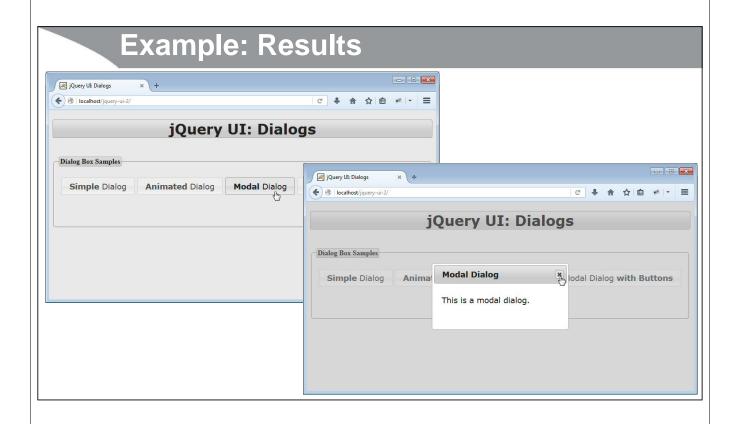
Core JavaScript code

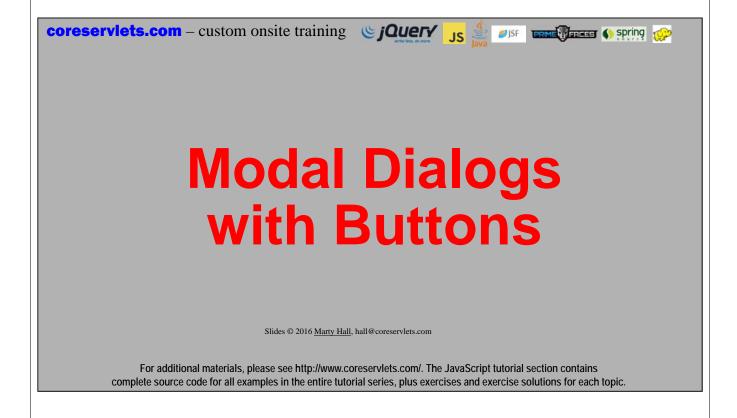
```
$("#some-id").dialog({ modal: true });
```

Example: HTML

Example: JavaScript

```
$(function() {
    $("#modal-dialog-button-1")
        .button()
        .click(function() {
        $("#modal-dialog-1")
            .dialog({ modal: true });
        });
    ...
});
```





Big idea

- Pop up modal dialog. Include buttons that allow further actions.

Core HTML code

```
<div id="..." title="..." style="display: none">...</div>
- (Same as before)
```

Core JavaScript code

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Details on :buttons

Motivation

You could implement this approach yourself in a normal dialog, once you know that calling \$(this).dialog("close") from event triggered in dialog will close the dialog. But the buttons: shortcut simplifies this and uses a style that can be modified by current theme.

Syntax

 The button functions can do arbitrary tasks, but they should end by doing \$(this).dialog("close");

Icons

- You can include icons by using a span in the main HTML content like this:
 -
- A complete list of icons and more info on their use in jQuery UI can be found at http://api.jqueryui.com/theming/icons/

Example: HTML

Example: Dummy Functions

```
var uiDemo = {}; // To avoid name conflicts

uiDemo.formatHardDrive = function() {
    // Blah
}

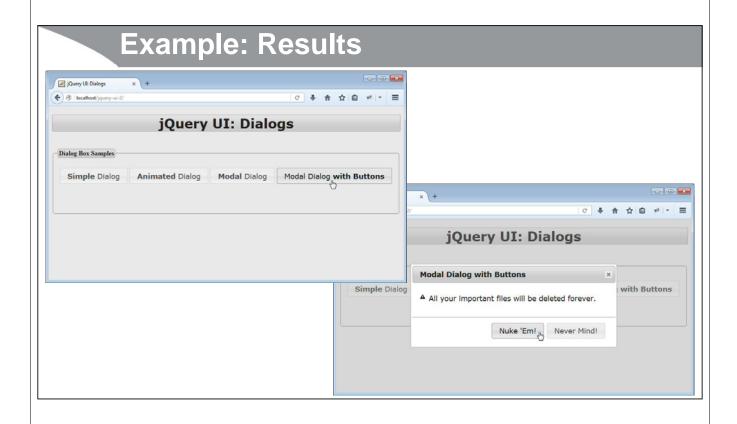
uiDemo.cancelFormat = function() {
    // Blah
}
```

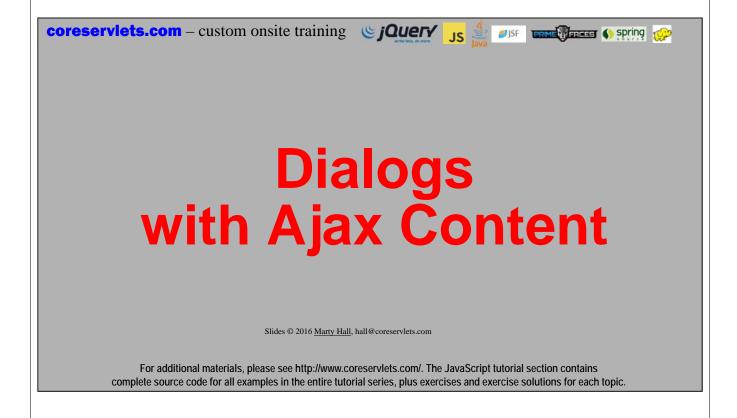
Example: Button Functions

```
uiDemo.nukeEm = function() {
   uiDemo.formatHardDrive();
   $(this).dialog("close");
}

uiDemo.neverMind = function() {
   uiDemo.cancelFormat();
   $(this).dialog("close");
}
```

Example: Core JavaScript





Big idea

- Button makes Ajax request.
- Handler function inserts result into content of the div, then pops up the dialog box

Core HTML code

```
<div id="id-of-div" title="..." style="display: none">
...<span id="id-inside-div"></span></div>
```

- (Same as before, but with span or other element inside div that has an id)

Core JavaScript code

```
$("#button-id").button().click(ajaxFunction);
function ajaxFunction(text) {
  $("#id-inside-div").load("some-address");
  $("#id-of-div").dialog();
}
```

Example: HTML

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Example: Core JavaScript

```
$(function() {
    $("#ajax-dialog-button").button().click(uiDemo.showNumber);
    ...
});

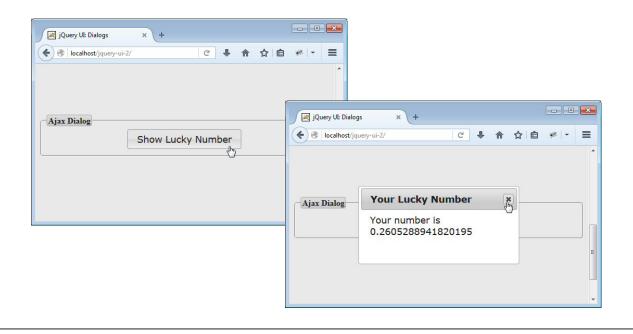
uiDemo.showNumber = function(num) {
    $("#number-result").load("random-num.jsp");
    $("#ajax-dialog").dialog();
}
```

Example: JSP

```
<%= Math.random() %>
```

This is the same JSP used several times in the sections on Ajax with jQuery. On each request, it outputs a new random number between 0 and 1.

Example: Results



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Wrap-up

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Summary

HTML

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- Make div with an id and style="display: none"

JavaScript

```
    Basic dialogs

   $("#div-id").dialog();

    Dialogs with animation

   $("#div-id").dialog({ show: { ... }, close: { ... } });

    Modal dialogs

   $("#div-id").dialog({ modal: true });

    Modal dialogs with buttons

   $("#div-id").dialog({ modal: true,
                              buttons: { "label1": function1,
                                            "label2": function2 } );

    Button functions should end by doing $(this).dialog("close");
```

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